

Christian Allen

EDUCATION

Western Governors University - B.S. in Computer Science

August 2024

Erie Community College - A.S. in General Studies

May 2020

SKILLS

Languages : C++, CSS, HTML, Java, JavaScript, Python, Scala, SQL

Tools : Angular, Bash, Docker, Git, Hibernate, MySQL, PostgreSQL, REST, Spring Boot

PROJECTS

AI Pathfinder

- Achieved accurate player location retrieval using Scala and JavaScript, enhancing functionality for the enemy AI
- Engineered pathfinding algorithms, optimizing AI movement towards target tiles based on the player locations
- Crafted minimal-path computations, streamlining navigation for AI players while avoiding diagonal movements

Genetic Algorithm

- Utilized Scala to implement methods for statistical computations like average, top K, and standard deviation
- Formulated and executed a Bayesian average algorithm to address biases in user ratings and ranking systems
- Created functions to read song data from CSV files and calculate cost functions for user songs and playlists

SmartRoute System

- Implemented nearest neighbor algorithm, optimizing package delivery and truck driving mileage by 30 percent
- Integrated a custom hash table for efficient package tracking, enhancing data access and accuracy in real-time
- Developed an intuitive user interface for monitoring delivery, and truck status improving the user experience

Movie Matcher

- Established a Python-based movie recommendation system using cosine similarity, matching user ratings to film
- Processed and cleaned a dataset of over 50,000+ movies and 100,000+ ratings, optimizing model precision
- Deployed a user-friendly interface, enabling the users to receive the top 5 movies based on their rating history

CERTIFICATIONS

Linux Essentials - Linux Professional Institute

ITIL 4 Foundation - Axelos

WORK HISTORY

Knab Enterprises - Sales Manager

September 2021 – Present

- Drove sales growth through technical discussion with customers and strategic digital marketing campaigns

McDonald's - Crew Manager

February 2017 – September 2021

- Offered mentorship to 15+ new employees, facilitating smooth operations with effective store management